

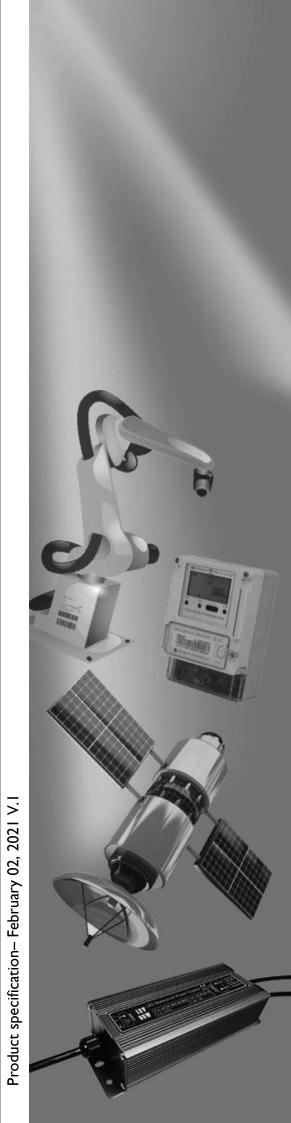
DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

4532 series

RoHS compliant & free





GAS DISCHARGE TUBS

Gas Discharge Tube (GDT) Data Sheet

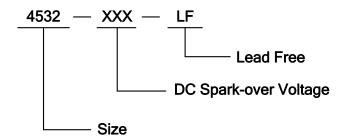
Features

- High insulation resistance
- Low capacitance (≤0.5pF)
- 2KA 8/20µs maximum surge current capacity in accordance with IEC 61000-4-5& IEC 61643-311
- 4KV 10/700µs maximum surge rating in accordance with ITU-TK.21
- Surface mounted gas arrester
- Micro-Gap Design
- Size 4532(1812)
- Storage and operating temperature: -40°C ~ +90°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL & TUV

Applications

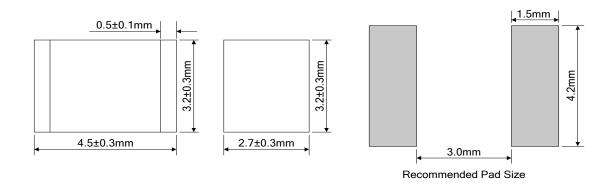
- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

Part Number Code and Marking



090: Device Marking Code

Dimensions



4532 series

Electrical Characteristics

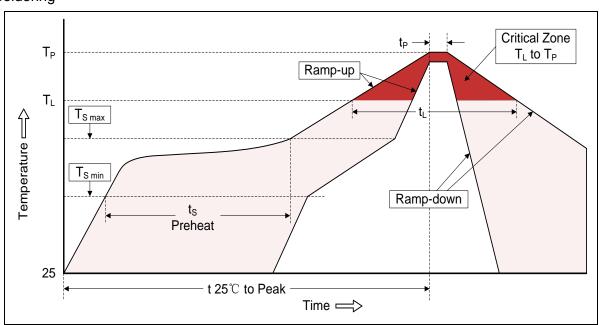
Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Minimum Insulation Resistance		Maximum Capacitance	Device Marking
	100V/s	1000V/µs	8/20µs 10times	10/700µs 10times	Test Voltage	(GΩ)	(1MHz 1V)	Code
	(V)	(V)	(KA)	(KV)	DC(V)	(,	(pF)	
4532-075-LF	75±30%	600	2	4	50	1	0.5	075
4532-091-LF	90±30%	700	2	4	50	1	0.5	090
4532-121-LF	120±30%	700	2	4	50	1	0.5	120
4532-151-LF	150±30%	700	2	4	50	1	0.5	150
4532-201-LF	200±30%	750	2	4	100	1	0.5	200
4532-231-LF	230±30%	750	2	4	100	1	0.5	230
4532-301-LF	300±30%	900	2	4	100	1	0.5	300
4532-351-LF	350±30%	900	2	4	100	1	0.5	350
4532-401-LF	400±30%	1000	2	4	100	1	0.5	400
4532-421-LF	420±30%	1000	2	4	100	1	0.5	420
4532-471-LF	470±30%	1000	2	4	100	1	0.5	470
4532-501-LF	500±30%	1100	2	4	100	1	0.5	500
4532-601-LF	600±30%	1200	1	4	100	1	0.5	600
4532-801-LF	800±30%	1600	1	4	100	1	0.5	800
4532-1000-LF	1000±20%	2400	1	4	100	1	0.5	102
4532-1200-LF	1200±20%	2600	1	4	100	1	0.5	122
4532-1500-LF	1500±20%	2800	1	4	100	1	0.5	152

Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	. The voltage is measured with voltage ramp dv/dt=100V/s	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.	To meet the specified value
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time.	
Impulse Withstanding Voltage	The maximum 10/700µs surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time.	

Recommended Soldering Conditions

Reflow Soldering



Profile Feature	Pb-Free Assembly
Average ramp-up rate (T _L to T _P)	3°C/second max.
Preheat -Temperature Min (T _{S min}) -Temperature Max (T _{S max}) -Time (min to max) (ts)	150°C 200°C 60-180 seconds
T _{S max} to T _L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak Temperature (T _P)	260°C
Time within 5°C of actual Peak Temperature (t _P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Packaging

Tape	ltomo	Dimension (mm)	
	Items	Spec.	Tolerance
	W	12.00	±0.20
P0	P0	4.00	±0.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P1	8.00	±0.20
	P2	2.00	±0.10
	D0	1.55	±0.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D1	1.00	±0.10
A0	E	1.75	±0.10
SECTION A-A	F	5.50	±0.10
	A0	3.80	±0.10
	K0	3.20	±0.10
	В0	4.90	±0.10
	tO	0.40	±0.10
Reel → + ^t	D	330.00	±2.00
D d	d	13.00	±0.50
	L	16.00	±2.00
	t	2.00	±0.20
	Quantity: 2500pcs		